STR-DE445/DE545/SE501

SERVICE MANUAL

US Model
STR-DE445/DE545/SE501
Canadian Model
AEP Model
UK Model
STR-DE445/DE545
E Model
Australian Model
Chinese Model
PX Model
STR-DE545

Photo: STR-DE445

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8 Ω loads, both channels driven, from 20 – 20,000 Hz; rated 100[a)] W per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 mW to rated output (US model only).
STR-DE445:
a) 80 W

Amplifier section

Rated Power Output at Stereo mode
US model:
(8 Ω 20 Hz – 20 kHz, THD 0.09 %)
EXCEPT US:
(8 Ω 1 kHz, THD 0.7 %)
STR-DE545/SE501:
100 W + 100 W
STR-DE445:
80 W + 80 W

Reference Power Output
(8Ω at 1 kHz, THD 0.7 %)
STR-DE545/SE501:
Front: 100 W + 100 W
Center: 100 W
Rear: 100 W + 100 W
STR-DE445:
Front: 80 W + 80 W
Center: 80 W
Rear: 80 W + 80 W

Frequency response
CD, MD/TAPE, DVD/LD, TV/SAT, VIDEO, AUX:
10 Hz – 50 kHz +0.5/–2 dB
(with sound field, tone, and bass boost bypassed)

Inputs (Analog) 5.1 CH INPUT, CD, DVD/LD, MD/TAPE, TV/SAT, VIDEO, AUX:
Sensitivity: 250 mV
Impedance: 50 kΩ
S/N[b)]: 96 dB (A, 250 mV[c)])

b) Input short.
c) Weighted nework, input level.

Inputs (Digital) DVD/LD (coaxial):
Sensitivity: —
Impedance: 75 Ω
S/N: 100 dB (A, 20 kHz LPF)
DVD/LD, TV/SAT* (Optical):
Sensitivity: —
Impedance: —
S/N: 100 dB (A, 20 kHz LPF)

**) STR-DE545 and STR-SE501 only.*

Outputs MD/TAPE, (REC OUT); VIDEO (AUDIO OUT):
Voltage: 250 mV,
Impedance: 10 kΩ
SUB WOOFER:
Voltage: 2 V
Impedance: 1 kΩ
PHONES:
Accepts low- and high-impedance headphones

BASS BOOST +6 dB at 70 Hz

TONE ±6 dB at 100 Hz and 10 kHz

Sampling Frequency 48 kHz

FM tuner section

Tuning range 87.5 – 108.0 MHz

Antenna terminals 75 Ω, unbalanced

Sensitivity Mono: 18.3 dBf, 2.2 µV/75 Ω
Stereo: 38.3 dBf, 22.5 µV/75 Ω

Usable sensitivity 11.2 dBf, 1 µV/75 Ω

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response
30 Hz – 15 kHz
+0.5/–2 dB

Selectivity 60 dB at 400 kHz

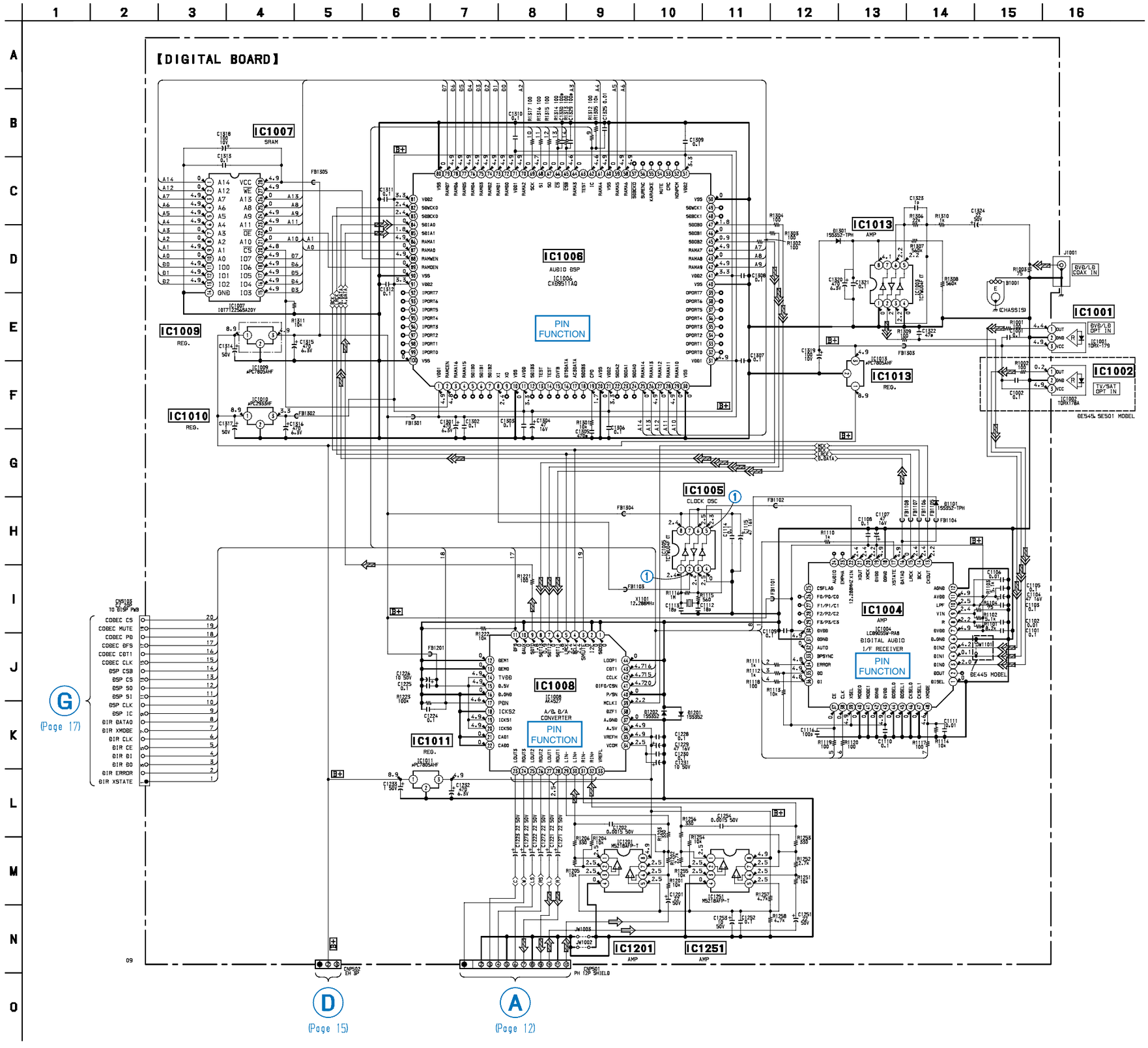
— Continued on next page —

FM STEREO FM-AM RECEIVER

SONY®

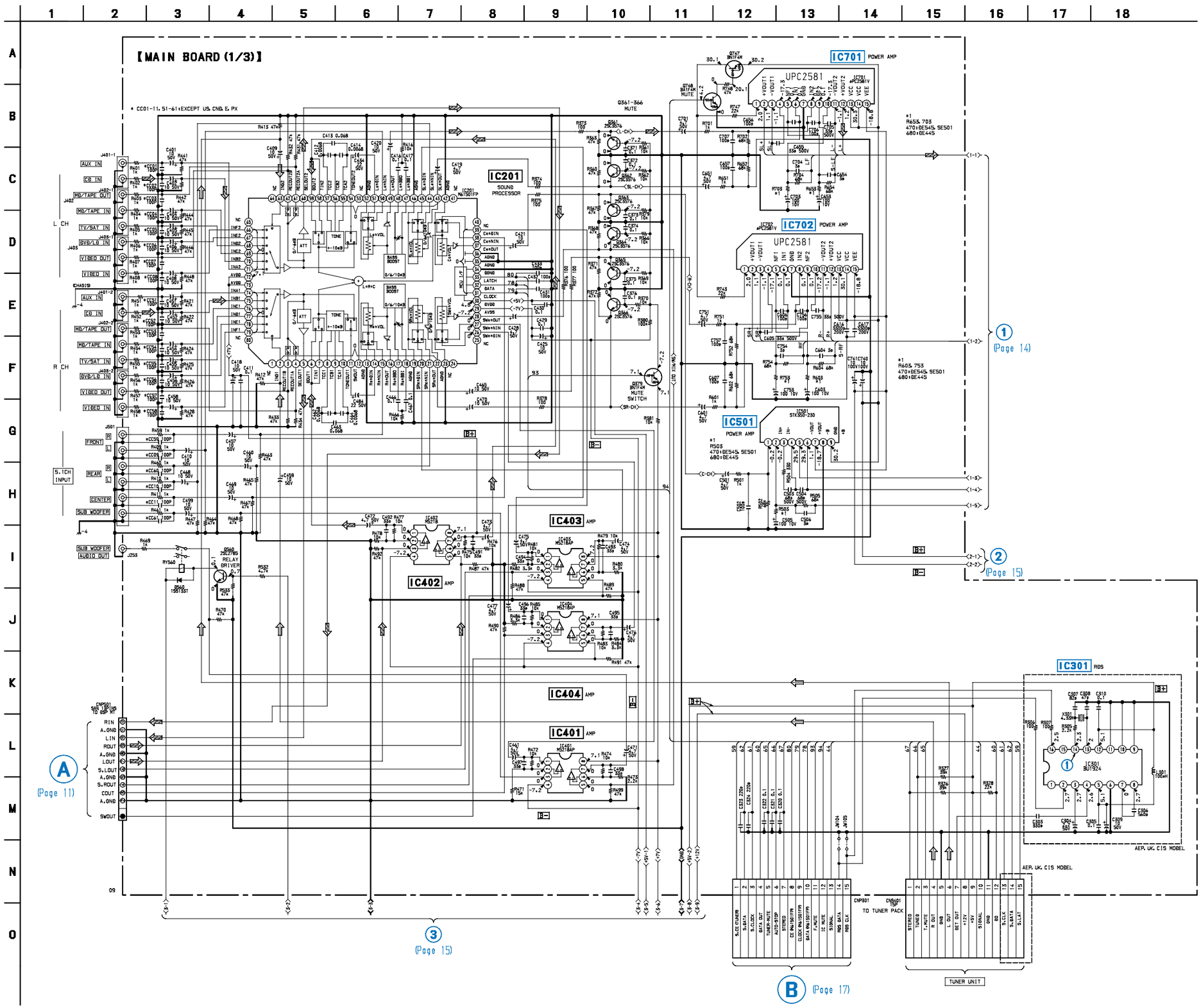
3-4. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- See page 7 for Waveforms.
- See page 21 for IC Pin Functions.

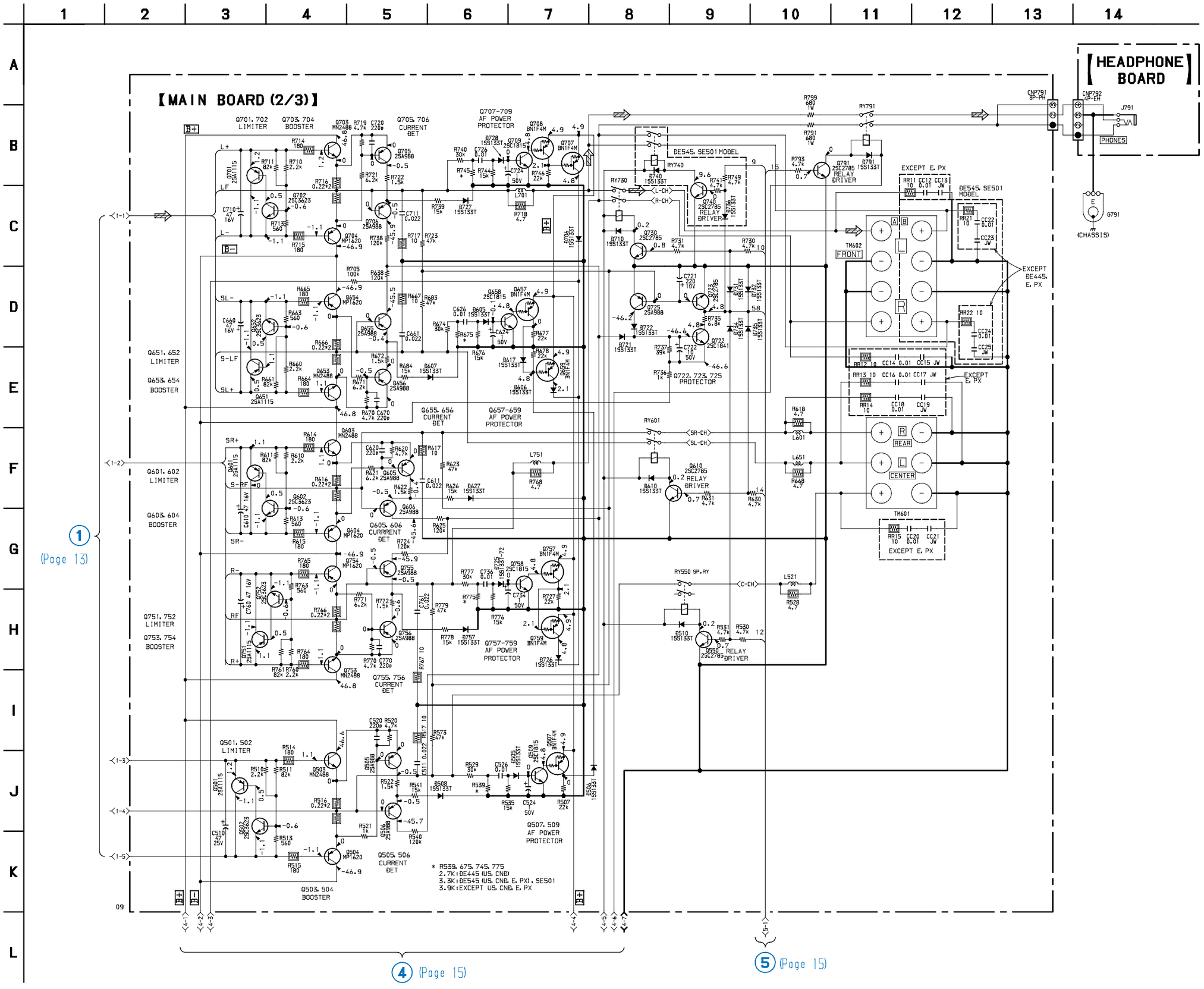


3-6. SCHEMATIC DIAGRAM — MAIN (1/3) SECTION —

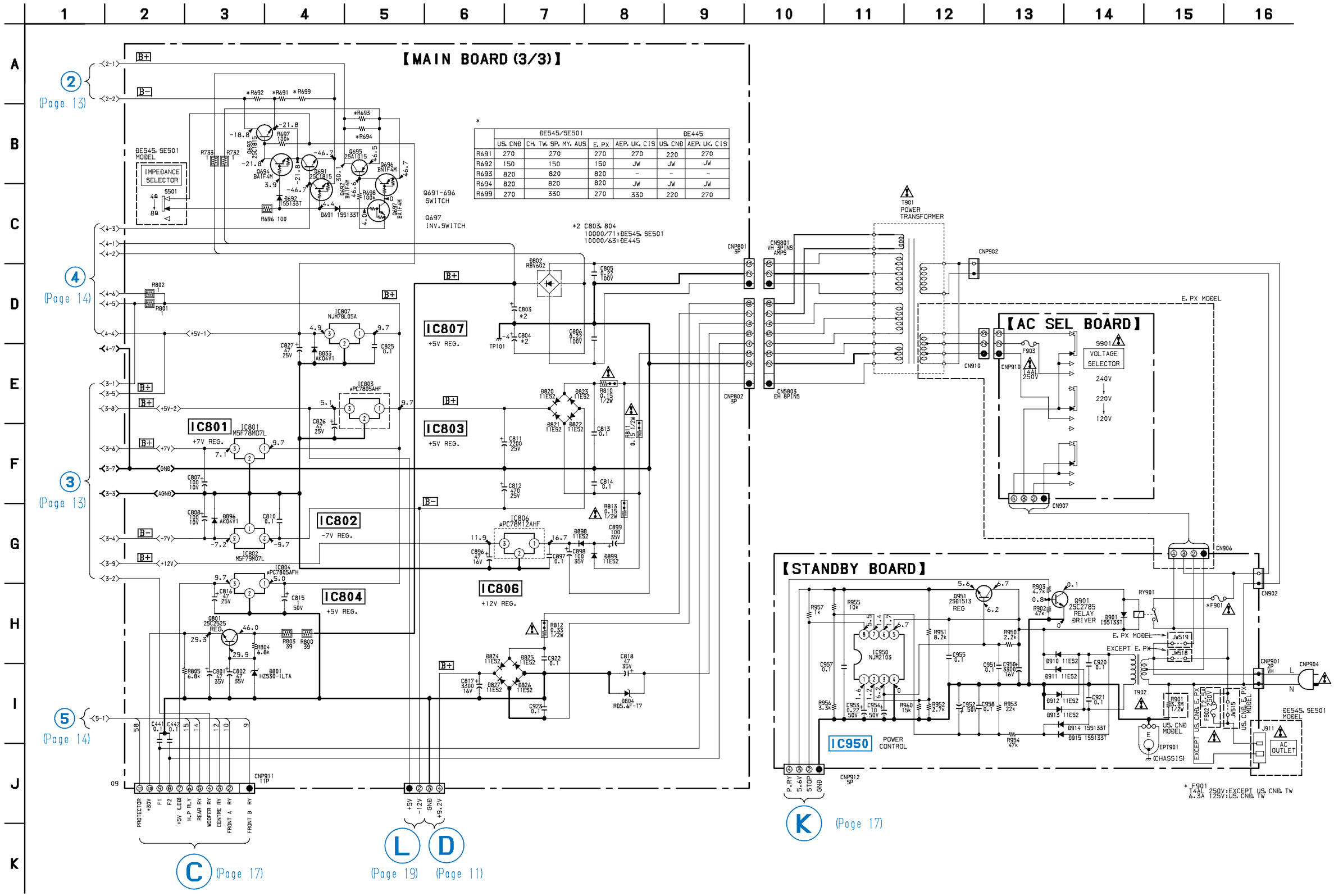
- See page 7 for Waveforms.
- See page 28 for IC Block Diagrams.



3-7. SCHEMATIC DIAGRAM — MAIN (2/3) SECTION —



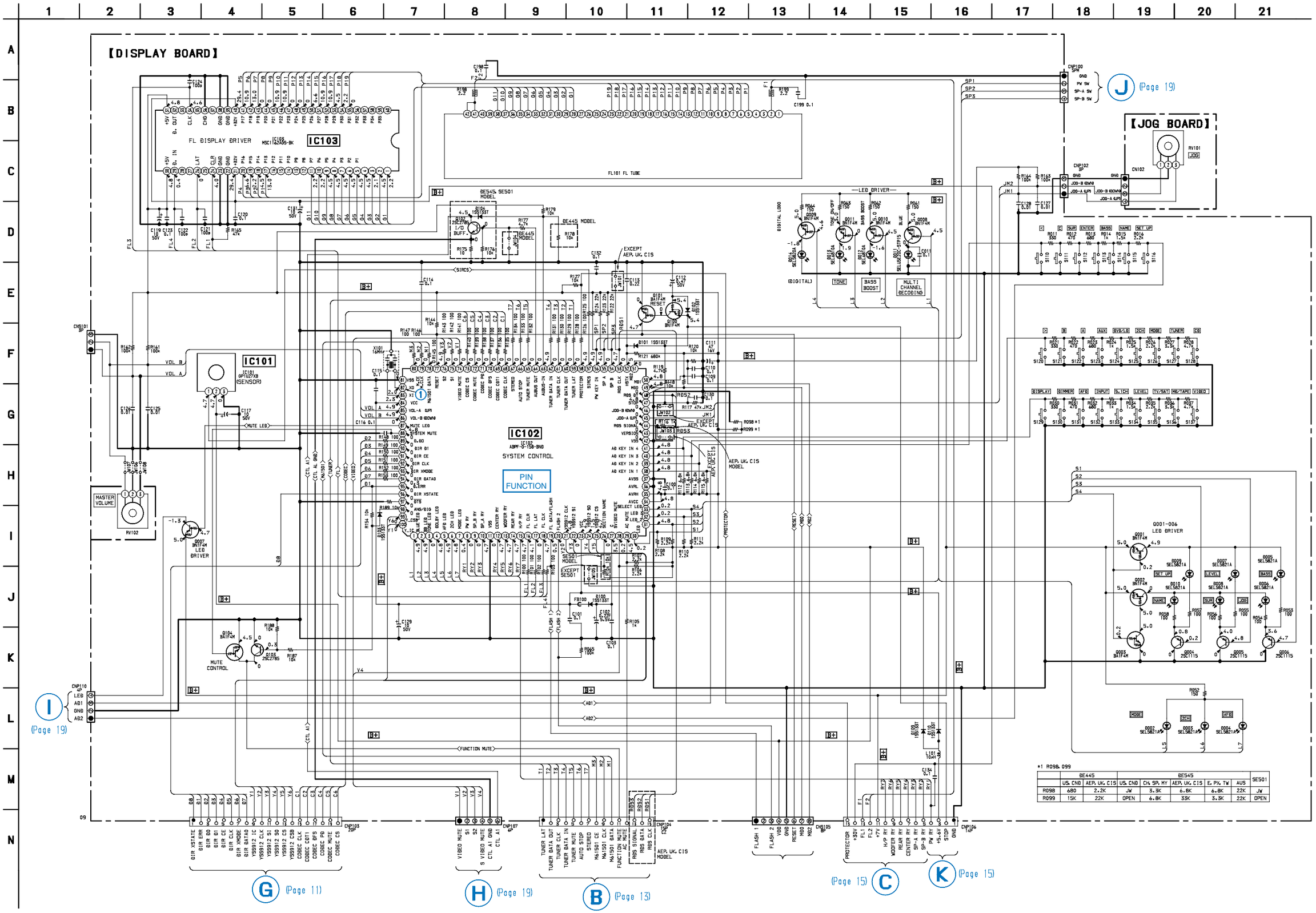
3-8. SCHEMATIC DIAGRAM — MAIN (3/3) SECTION —

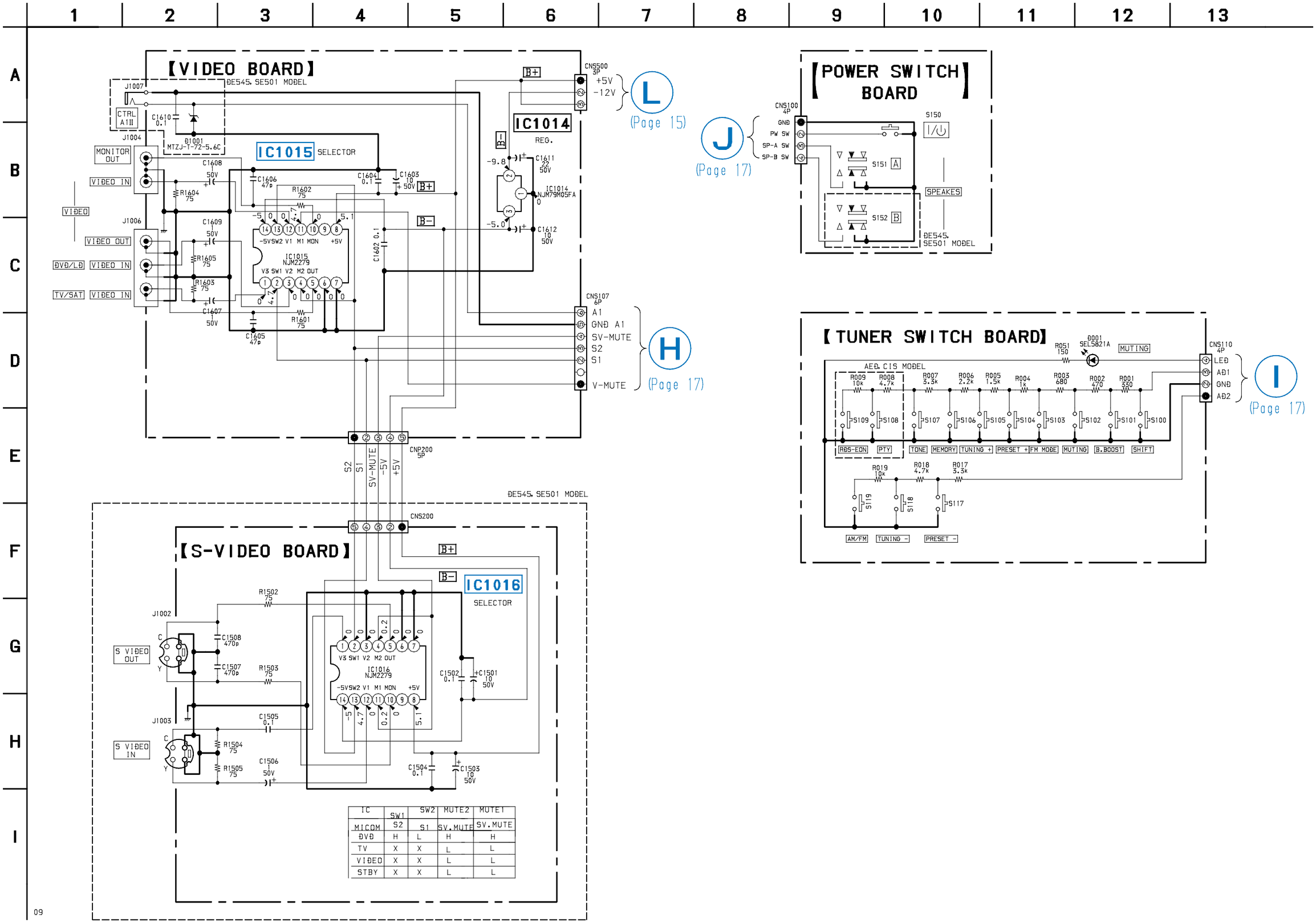


	DE545/SE501				DE445	
	US, CND	CH, TW, SP, MY, AUS	E, PX	AEP, UK, CIS	US, CND	AEP, UK, CIS
R691	270	270	270	270	220	270
R692	150	150	150	JW	JW	JW
R693	820	820	820	–	–	–
R694	820	820	820	JW	JW	JW
R699	270	330	270	330	220	270

3-10. SCHEMATIC DIAGRAM — DISPLAY SECTION —

- See page 7 for Waveforms.
- See page 26 for IC Pin Functions.



3-12. SCHEMATIC DIAGRAM — VIDEO/KEY SECTION —

• See page 29 for IC Block Diagrams.